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IAS - 127/69
8 July 1969

MEMORANDUM FOR THE RECORD

SUBJECT: Twin Stage Comparator, Model 1740

1. Today I discussed this subject with who has just replaced as the NPIC Project Officer. My comments were based on my visit to the on 2 July and on conclusions reached at the IAS Production Board meeting of 3 July 1969.

2. The points of concern were expressed as follows:

a. Handwheels for stage rotation - satisfactory and need not be modified in spite of their height above the film stage.

b. Control panel titling -

(1) Filter selector - presently titled, "FILTERS," with positions indicated by the numbers, "1, 2, 3, 4." Should be changed to read, "ILLUMINATION TRANSMISSION" with the four positions of the control marked with the appropriate percentage of transmission, e.g., "100%, 75%, 50%, 25%."

(2) Diaphragm selector - presently titled, "DIAPHRAGM" with switch positions marked, "1, 3, 6, 10." Should be titled "DIAPHRAGM SELECTOR" with switch positions indicated by contrasting color coded lines or dots corresponding to equivalent color identifiers on the objective lenses.

(3) Rocker switch which selects the stage(s) connected to the joystick - Is presently titled, "L-B-R," to indicate its three positions. Should be marked with the words "LEFT" and "RIGHT" running vertically on each side of the switch and the word "COUPLED" running horizontally above the switch with a line indicating the mid-position of the switch.

(4) Toggle switch for selecting master stage - presently titled "MASTER" above the switch with the letters "L" and "R" on the sides of the switch. Should be changed to read, "MASTER STAGE" with the letters "L" and "R" remaining as they are.

Note: Called re above changes. They will definitely do # 2 & 5 (as marked) and the rest if they goof and have to make new panels. If not, panels remain as they are. PWS. 8/5/69

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(5) Speed ratio control - presently titled "STAGE SPEED RATIO" with the limits of the control knob marked "1" and ".2" respectively. Should be changed to read, "SPEED RATIO (SLAVE STAGE)." In addition the control knob must have incremental markings between its limits of 1x and .2x. *Will be followed*

3. Although the prototype Model 1740 was not operational when I visited the ☐ I asked ☐ to be alert for potential problems with the joystick control. Precise positioning of the stages may be difficult, although ☐ believes the logarithmic system to be employed will make the joystick operation satisfactory. I also asked ☐ to investigate means of reducing the tension on the joystick to overcome its present "feel." It seems to move rather easily in X or Y but responds as though it were operating in an "+" type slot. This makes translation difficult at other angles like 45°, for example.

4. ☐ will convey these recommendations to the ☐ when he visits there later this week.

5. On 2 July ☐ that the microscope illumination control must have incremental markings (similar to our present Dynazooms), and should have a "red line" to indicate illumination settings considered to be excessive to the eyes unless film is in place under the objective lenses.

☐
Technical Advisor
Imagery Analysis Service

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